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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: MOORE et al. Atty. Docket No.: PF378

Application Number: 09/084,491 Group Art Unit: 1652

Filed: May 27, 1998 Examiner: Slobodyansky, E.

Title: Tissue Plasminogen Activator-Like Protease

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

Claims 88, 96, 104, 112, 114-123, 125, 133, 135-144, 146, 154, 157, 165, 174, and 182 have been rewritten as follows:

88. (Once amended) The isolated nucleic acid molecule of claim ~~76~~ 87 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

96. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 92 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.

104. (Once amended) The isolated nucleic acid molecule of claim ~~97~~ 103 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

112. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 108 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.

114. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (a)~~encoding amino acid residues 21 to 242 of SEQ ID NO:2~~.

115. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide (b)~~encoding amino acid residues 20 to 242 of SEQ ID NO:2~~.

116. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide (c)~~encoding amino acid residues 1 to 242 of SEQ ID NO:2~~.

117. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (d)~~encoding amino acid residues 4 to 63 of SEQ ID NO:2~~.

118. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (e)~~encoding amino acid residues 64 to 242 of SEQ ID NO:2~~.

119. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (a)~~encoding amino acid residues -21 to 242 of SEQ ID NO:2~~.

120. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (b)~~encoding amino acid residues -20 to 242 of SEQ ID NO:2~~.

121. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (c)~~encoding amino acid residues 1 to 242 of SEQ ID NO:2~~.

122. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (d)~~encoding amino acid residues 4 to 63 of SEQ ID NO:2~~.

123. (Once amended) The isolated nucleic acid molecule of claim 113 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (e)~~encoding amino acid residues 64 to 242 of SEQ ID NO:2~~.

125. (Once amended) The isolated nucleic acid molecule of claim ~~113~~ 124 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

133. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 129 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.

135. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (a)~~encoding the amino acid sequence of the full-length polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

136. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (b)~~encoding the amino acid sequence of the full-length polypeptide, excluding the N-terminal methionine residue, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

137. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to a the second polynucleotide (c)~~encoding the amino acid sequence of the mature polypeptide,~~

~~which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

138. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (d)~~encoding the amino acid sequence of the kringle domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

139. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 90% or more identical to ~~a~~ the second polynucleotide (e)~~encoding the amino acid sequence of the protease domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

140. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (a)~~encoding the amino acid sequence of the full-length polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

141. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (b)~~encoding the amino acid sequence of the full-length~~

~~polypeptide, excluding the N-terminal methionine residue, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

142. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (c)~~encoding the amino acid sequence of the mature polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

143. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (d)~~encoding the amino acid sequence of the kringle domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

144. (Once amended) The isolated nucleic acid molecule of claim 134 ~~which further comprises a~~ wherein said first polynucleotide is 95% or more identical to ~~a~~ the second polynucleotide (e)~~encoding the amino acid sequence of the protease domain of the polypeptide, which amino acid sequence is encoded by the cDNA clone contained in ATCC Deposit No. 209023~~.

146. (Once amended) The isolated nucleic acid molecule of claim ~~134~~ 145 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

154. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 150 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.

157. (Once amended) The isolated nucleic acid molecule of claim ~~155~~ 156 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

165. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 161 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.

174. (Once amended) The isolated nucleic acid molecule of claim ~~167~~ 173 wherein said heterologous polynucleotide encodes a heterologous polypeptide.

182. (Once amended) A method for producing a ~~protein~~polypeptide, comprising:

(a) culturing the recombinant host cell of claim 178 under conditions suitable to produce a polypeptide encoded by said nucleic acid molecule; and

(b) recovering the ~~protein~~polypeptide from the host cell culture.